

Explanation of the 2010 Urban Area to Metropolitan and Micropolitan Statistical Areas Relationship File:

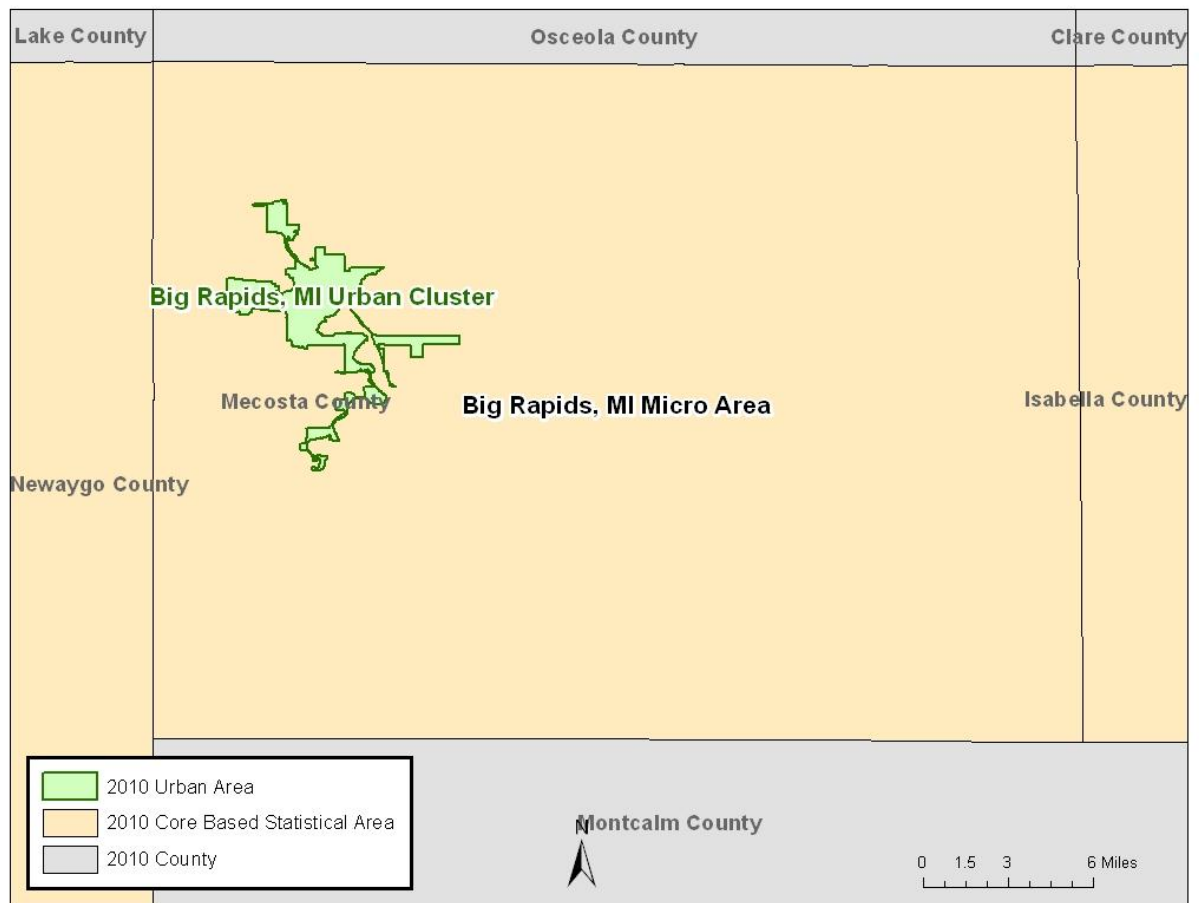
The 2010 Urban Area to Metropolitan and Micropolitan Statistical Areas Relationship File provides relationships between the 2010 urban areas and the Metro and Micro Areas. Urban areas include both urbanized areas (UA) and urban clusters (UC), and areas outside urban areas are considered rural. This list can be utilized to see if a metro or micro area is urban, rural, or contains both urban and rural area. Each record in the relationship file represents one polygon that is formed when the 2010 urban areas overlay the metro and micro areas. The polygon may represent the intersection of a 2010 urban area and a metro or micro area, or the portion of the metro or micro area that does not contain a 2010 urban area. In addition, since metro and micro areas are not a wall-to-wall coverage across the U.S., the polygon may represent the area of a 2010 urban area that does not intersect a metro and micro area. It is important to note that all population and housing unit figures given in the file are from the 2010 Census population count.

Explanation of Urban Area to Metropolitan and Micropolitan Statistical Areas Relationship File: Example 1

This example describes when a metro or micro area only contains one urban area and that urban area falls wholly within the metro or micro area. In this example, the Big Rapids, MI UC is in green below and falls wholly within the Big Rapids, MI Micro Area, which is outlined in black. There is only one record for the Big Rapids, MI UC (Value 1). The 2010 population for this relationship record is 14,241 (POPPT) and is equal to the 2010 population of 14,241 for Big Rapids, MI UC (UAPOP). Likewise, the 2010 housing unit count for both the relationship record (HUPT) and the urban area (UAHU) is 5,117. Therefore, the percentage of the total population of Big Rapids, MI UC represented by the relationship record (UAPOPPT) is 100. Although Big Rapids, MI UC falls entirely within the Big Rapids, MI Micro Area, the Big Rapids, MI Micro Area is bigger than the urban area. Since no other urban areas fall within the Big Rapids, MI Micro Area, there is only one additional record in the relationship file for the micro area. Value 2 represents the area of the Big Rapids, MI Micro Area that falls outside of the Big Rapids, MI UC and is designated with the name 'Not in a 2010 urban area' (UATYPE). The 2010 population living in the portion of the Big Rapids, MI Micro Area outside of any urban area is 28,557 (POPPT) and represents 66.73% of the total population living in the Big Rapids, MI Micro Area (MPOPPT). These numbers also represent the rural population in the micro area.

Field	Value 1	Value 2
UA	07624	99999
UATYPE	Big Rapids, MI Urban Cluster	Not in a 2010 urban area
CBSA	13660	13660
MNAME	Big Rapids, MI Micro Area	Big Rapids, MI Micro Area
MEMI	2	2
POPPT	14241	28557
HUPT	5117	16014
AREAPT	24301760	1455084640
AREALANDPT	24130980	1413495870
UAPOP	14241	
UAHU	5117	
UAAREA	24301760	
UAAREALAND	24130980	

Field	Value 1	Value 2
MPOP	42798	42798
MHU	21131	21131
MAREA	1479386400	1479386400
MAREALAND	1437626850	1437626850
UAOPPCT	100	
UAHUPCT	100	
UAAREAPCT	100	
UAAREALANDPCT	100	
MPOPPCT	33.27	66.73
MHUPCT	24.22	75.78
MAREAPCT	1.64	98.36
MAREALANDPCT	1.68	98.32



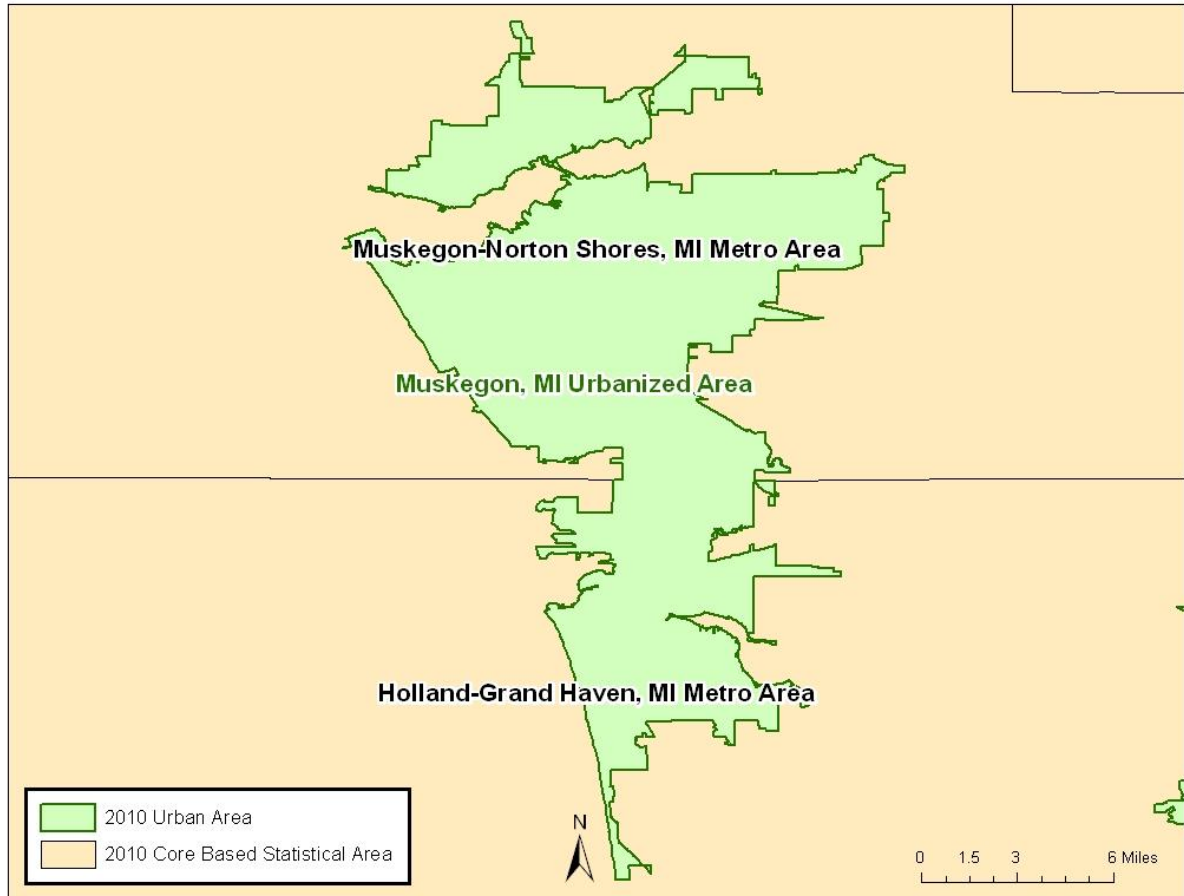
Explanation of Urban Area to Metropolitan and Micropolitan Statistical Areas Relationship File: Example 2

This example describes when a 2010 urban area falls into more than one metro or micro area. In this example, the Muskegon, MI UA is in green below and falls in two metro areas: Holland-Grand Haven, MI Metro Area and Muskegon-Norton Shores, MI Metro Area, which are outlined in black. The first record describes the relationship between the Muskegon, MI UA and Holland-Grand Haven, MI Metro Area. The 2010 population living within the Muskegon, MI UA is 161,280 (UAPOP) but only 39,675 (POPPT) also live within Holland-Grand Haven, MI Metro Area. This represents 24.6% of the total population (UAPOPCT) for the Muskegon, MI UA. Furthermore, out of the total population living within the Holland-Grand Haven, MI Metro Area, only 15.04% (MPOPCT) live within the Muskegon, MI UA. The second record describes the relationship between the Muskegon, MI UA and the Muskegon-Norton Shores, MI Metro Area. The 2010 population living in the Muskegon, MI UA and in the Muskegon-Norton Shores, MI Metro Area is 121,605 (POPPT) and represents 75.4% (UAPOPCT) of the total population in the Muskegon, MI UA. Furthermore, 70.62% (MPOPCT) of the total population in Muskegon-Norton Shores, MI Metro Area also lives in the Muskegon, MI UA.

Both Metro Areas contain additional urban areas and area outside of a 2010 urban area. Therefore, there are additional records in the relationship file for these Metro Areas that are not shown below.

Field	Value 1	Value 2
UA	60841	60841
UENAME	Muskegon, MI Urbanized Area	Muskegon, MI Urbanized Area
CBSA	26100	34740
MNAME	Holland-Grand Haven, MI Metro Area	Muskegon-Norton Shores, MI Metro Area
MEMI	1	1
POPPT	39675	121605
HUPT	18878	52002
AREAPT	88688205	216145223
AREALANDPT	81194751	209642345
UAPOP	161280	161280
UAHU	70880	70880
UAAREA	304833428	304833428
UAAREALAND	290837096	290837096
MPOP	263801	172188
MHU	102495	73561
MAREA	4225331331	3781445966
MAREALAND	1459373665	1293040828
UAPOPCT	24.6	75.4
UAHUPCT	26.63	73.37
UAAREAPCT	29.09	70.91
UAAREALANDPCT	27.92	72.08
MPOPCT	15.04	70.62
MHUPCT	18.42	70.69

Field	Value 1	Value 2
MAREAPCT	2.1	5.72
MAREALANDPCT	5.56	16.21



Explanation of Urban Area to Metropolitan and Micropolitan Statistical Areas Relationship File: Example 3

This example describes when a metro or micro area contains more than one urban area. In this example, Sturgis, MI Micro Area contains three urban areas: Constantine, MI UC (Value 1), Sturgis, MI UC (Value 2), and Three Rivers, MI UC (Value 3). In addition, there is a fourth record in the relationship file representing portions of the micro area not in a 2010 urban area (Value 4). The urban areas are shown in green below and the Sturgis, MI Micro Area is outlined in black. In the first record, the Constantine, MI UC falls wholly within the Sturgis, MI Micro Area. The 2010 population for this record is 4,074 (POPPT) which is equal to the total population of the Constantine, MI UC (UAPOP). The total population for the Sturgis, MI Micro Area is 61,295 (MPOP) and 6.65% (MPOPPCT) of the population living with Sturgis, MI Micro Area also live within the Constantine, MI UC. In the second record, the Sturgis, MI UC also falls wholly within the Sturgis, MI Micro Area. The 2010 population for both Sturgis, MI UC and the polygon represented by this record is 13,040 (POPPT and UAPOP). In addition, 21.27% (MPOPPCT) living within Sturgis, MI Micro Area also live within the Sturgis, MI UC. Likewise, the third record represents the relationship between the Three Rivers, MI UC and the Sturgis, MI Micro Area. The 2010 population for both Three Rivers, MI UC and the polygon represented by this record is 10,820 (POPPT and UAPOP). Furthermore, 17.65% (MPOPPCT) living within Sturgis, MI Micro Area also live within the Three Rivers, MI UC. The fourth record represents the area not covered by a 2010 urban area and, therefore, represents the rural population. The 2010 population that is considered rural in Sturgis, MI Micro Area is 33,361 (POPPT) and represents 54.43% (MPOPPCT) of the total population in Sturgis, MI Micro Area.

Field	Value 1	Value 2	Value 3	Value 4
UA	19774	85303	87517	99999
UATYPE	Constantine, MI Urban Cluster	Sturgis, MI Urban Cluster	Three Rivers, MI Urban Cluster	Not in a 2010 urban area
CBSA	44780	44780	44780	44780
MNAME	Sturgis, MI Micro Area	Sturgis, MI Micro Area	Sturgis, MI Micro Area	Sturgis, MI Micro Area
MEMI	2	2	2	2
POPPT	4074	13040	10820	33361
HUPT	1762	5467	4937	15612
AREAPT	8595510	24750262	34643896	1281477608
AREALANDPT	8376129	24750080	32952093	1230446316
UAPOP	4074	13040	10820	
UAHU	1762	5467	4937	
UAAREA	8595510	24750262	34643896	
UAAREALAND	8376129	24750080	32952093	
MPOP	61295	61295	61295	61295
MHU	27778	27778	27778	27778
MAREA	1349467276	1349467276	1349467276	1349467276
MAREALAND	1296524618	1296524618	1296524618	1296524618
UAPOPPCT	100	100	100	
UAHUPCT	100	100	100	
UAAREAPCT	100	100	100	
UAAREALANDPCT	100	100	100	

Field	Value 1	Value 2	Value 3	Value 4
MPOPCT	6.65	21.27	17.65	54.43
MHUPCT	6.34	19.68	17.77	56.2
MAREAPCT	0.64	1.83	2.57	94.96
MAREALANDPCT	0.65	1.91	2.54	94.9

